

Date: 6-27 '02

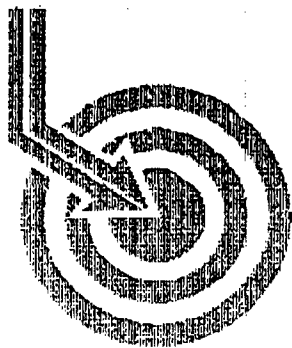
To: Michael Stogner

From: Denise Leake
Chevron Texaco

Fax: 915-687-7221

Office: 915-687-7375

Cover + 6



Scientific Drilling



TEXACO E & P INC.

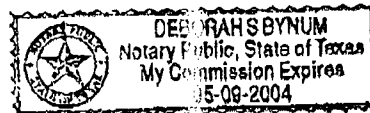
Field: Justis Blinebry ~~Job~~
Site: Lea County, NM
Well: G.L. Erwin "A" #7
Wellpath: DH - Job #32D1101628
Survey: 12/13/01-12/21/01

This survey is correct to the best of my knowledge
and is supported by actual field data.

Scott M. Mandy Company Representative

Notorized this date 16th of January, 2002.

Deborah S. Bynum
Notary Signature
County of Midland
State of Texas



Survey Report

Company: TEXACO E & P INC.	Date: 1/16/2002	Time: 10:57:23	Page: 1
Field: Justis Blinberry Tubb	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: G.L. Envin "A" #7	Section (VS) Reference:	Well (0.0E, 0.0N, 78.4Azi)	
Wellpath: DH - Job #32D1101628	Survey Calculation Method:	Minimum Curvature	

Survey: 12/13/01-12/21/01 MWD 5213'-7178'	Start Date: 1/16/2002
Company: SDI w/Unidril	Engineer: Lamb/Kemp
Tool: MWD	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	CRD ft	Chg deg
5200.0	0.29	83.32	5198.4	96.0	33.6	91.1	97.1	79.73
5213.0	0.29	83.32	5211.4	96.0	33.6	91.1	97.1	79.74
5310.0	6.40	73.90	5308.2	101.7	35.2	96.6	102.8	79.99
5341.0	6.20	76.80	5339.0	105.1	36.0	99.9	106.2	79.16
5384.0	11.10	88.70	5381.5	111.5	36.7	106.3	112.4	79.97
5415.0	25.60	88.40	5410.8	121.0	36.9	116.0	121.7	79.35
5445.0	39.30	81.20	5436.1	137.0	38.6	131.9	137.5	79.71
5488.0	59.30	82.70	5484.0	169.4	43.0	164.1	169.6	79.30
5510.0	68.80	78.70	5473.6	189.1	46.2	183.5	189.3	79.86
5542.0	78.10	76.20	5482.7	219.7	52.9	213.5	219.9	79.07
5586.0	85.00	75.70	5489.2	263.2	63.5	255.8	263.4	79.05
5616.0	89.90	76.30	5490.5	293.1	70.7	284.7	293.4	79.05
5648.0	95.60	76.30	5489.0	325.0	78.3	315.8	325.3	79.07
5680.0	102.00	75.70	5484.1	356.6	85.9	346.4	356.9	79.07
5711.0	108.30	77.00	5476.0	386.5	93.0	375.5	386.8	79.09
5743.0	110.80	79.20	5465.3	416.7	99.2	405.0	417.0	79.23
5773.0	110.30	78.50	5454.7	444.8	104.7	432.5	445.0	79.40
5803.0	110.10	78.50	5444.4	472.9	110.3	460.1	473.2	79.52
5835.0	109.70	78.50	5433.5	503.0	116.3	489.6	503.2	79.64
5865.0	109.40	78.30	5423.4	531.3	122.0	517.3	531.5	79.73
5899.0	109.40	77.80	5412.1	563.3	128.6	548.7	563.6	79.81
5927.0	109.50	77.20	5402.8	589.7	134.3	574.5	590.0	79.84
5958.0	105.20	80.00	5393.6	619.3	140.2	603.5	619.5	79.93
5990.0	100.00	82.30	5386.6	650.5	144.9	634.3	650.7	77.13
6019.0	94.20	84.40	5383.0	679.2	148.3	662.9	679.3	77.39
6053.0	89.10	85.30	5382.0	712.9	151.3	696.7	713.0	77.75
6084.0	85.10	84.10	5383.6	743.7	154.2	727.5	743.7	78.03
6116.0	85.20	84.10	5386.3	775.4	157.5	759.3	775.4	78.28
6147.0	84.60	80.90	5389.1	806.2	161.5	789.9	806.2	78.45
6179.0	85.20	80.90	5391.9	838.0	166.5	821.3	838.0	78.54
6210.0	83.60	77.20	5394.9	868.9	172.4	851.6	868.9	78.56
6242.0	83.50	76.50	5398.5	900.7	179.6	882.6	900.7	78.50
6273.0	83.50	76.40	5402.0	931.5	186.8	912.5	931.5	78.43
6305.0	83.40	76.40	5405.7	963.2	194.3	943.4	963.2	78.36
6336.0	83.50	76.60	5409.2	994.0	201.5	973.4	994.0	78.30
6368.0	84.00	76.50	5412.7	1025.8	208.9	1004.3	1025.8	78.25
6400.0	85.20	76.10	5415.7	1057.6	216.4	1035.3	1057.6	78.19
6431.0	85.40	75.90	5418.3	1088.5	223.9	1065.2	1088.5	78.13
6461.0	85.10	76.30	5420.8	1118.4	231.1	1094.3	1118.4	78.07
6493.0	89.00	77.20	5422.4	1150.3	238.4	1125.4	1150.3	78.04
6523.0	92.40	77.40	5422.0	1180.3	245.0	1154.6	1180.3	78.02
6555.0	97.10	77.40	5419.4	1212.2	252.0	1185.7	1212.2	78.00
6586.0	102.60	77.80	5414.1	1242.7	258.5	1215.6	1242.7	77.99
6620.0	103.60	77.90	5406.4	1275.8	265.5	1247.9	1275.9	77.99
6650.0	106.50	80.10	5398.6	1304.8	271.0	1276.4	1304.8	78.01
6682.0	106.30	80.10	5389.6	1335.5	276.3	1306.6	1335.5	78.06
6713.0	106.10	82.40	5380.9	1365.2	280.8	1336.0	1365.2	78.13
6747.0	106.00	82.20	5371.5	1397.8	285.2	1368.4	1397.8	78.23

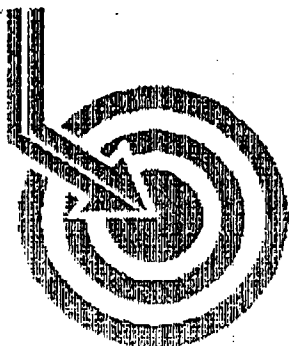
Survey Report

Company: TEXACO E & P INC.
 Field: Justis Blinberry Tubb
 Site: Lea County, NM
 Well: G.L. Erwin "A" #7
 Wellpath: DH - Job #32D1101628

Date: 1/16/2002 Time: 10:57:23 Page: 2
 Co-ordinate(NE) Reference: Site: Lea County, NM True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E, 0.0N, 78.4Azi)
 Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	C/D ft	C/A deg
6776.0	105.70	82.20	5363.6	1425.6	289.0	1396.0	1425.6	78.30
6808.0	104.20	78.70	5355.3	1456.5	294.1	1426.5	1456.5	78.35
6839.0	104.10	79.00	5347.7	1486.6	299.9	1456.0	1486.6	78.36
6871.0	100.90	79.40	5340.8	1517.8	305.8	1486.7	1517.8	78.38
6902.0	95.10	80.40	5336.5	1548.5	311.2	1516.9	1548.5	78.41
6933.0	91.30	81.40	5334.8	1579.4	316.1	1547.5	1579.4	78.46
6965.0	90.80	81.00	5334.2	1611.4	321.0	1579.1	1611.4	78.51
6997.0	86.50	78.80	5334.9	1643.3	326.6	1610.6	1643.3	78.54
7029.0	82.40	78.40	5338.0	1675.2	332.9	1641.8	1675.2	78.54
7060.0	82.30	78.80	5342.2	1705.9	338.9	1671.9	1705.9	78.54
7092.0	82.40	78.20	5346.4	1737.6	345.3	1703.0	1737.6	78.54
7123.0	83.10	76.40	5350.3	1768.4	352.0	1733.0	1768.4	78.52
7143.0	83.10	76.70	5352.7	1788.2	356.6	1752.3	1788.2	78.50
7178.0	83.10	78.70	5356.9	1823.0	364.0	1786.2	1823.0	78.48



Scientific Drilling



TEXACO E & P INC.

Field: Justin Tubb Drinkard
Site: Lea County, NM
Well: G.L. Erwin "A" #7
Wellpath: DH - Job #32D1101628
Survey: 11/24/01-12/7/01

This survey is correct to the best of my knowledge
and is supported by actual field data.

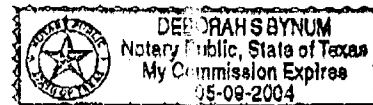
Justin Tubb Drinkard

Company Representative

Notorized this date 16th of January, 2002.

Deborah S Bynum

Notary Signature
County of Midland
State of Texas



Survey Report

Company: TEXACO E & P INC.
 Field: Justin Tubb Drinkard
 Site: Lea County, NM
 Well: G.L. Erwin "A" #7
 Wellpath: DH - Job #32D1101628

Date: 1/16/2002 Time: 10:30:42 Page: 1
 Co-ordinate(NE) Reference: Site: Lea County, NM, True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E, 0.0N, 78.4Azi)
 Survey Calculation Method: Minimum Curvature

Survey: 11/24/01-12/7/01
 MWD 6171'-8006'

Start Date: 1/16/2002

Company: SDI w/Undrill
 Tool: MWD

Engineer: Lamb/Kemp

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ASD ft	ClsA deg
6100.0	0.72	63.08	6098.3	101.1	36.6	95.7	102.5	69.09
6171.0	0.77	61.96	6169.3	102.0	36.8	96.6	103.4	69.13
6232.0	34.80	79.30	6226.6	120.4	40.2	114.6	121.5	70.67
6252.0	44.10	80.10	6242.0	133.1	42.5	127.1	134.0	71.52
6282.0	56.90	81.50	6261.0	156.2	46.2	149.9	156.9	72.89
6318.0	71.70	80.70	6276.6	186.5	51.2	181.9	189.0	74.29
6349.0	78.00	79.70	6284.7	218.4	56.3	211.4	218.7	75.09
6380.0	83.50	78.60	6289.7	248.9	62.0	241.4	249.2	75.59
6412.0	88.60	77.90	6291.9	280.9	68.5	272.7	281.1	75.89
6445.0	94.50	78.00	6291.0	313.8	75.4	304.9	314.1	76.11
6476.0	99.90	78.00	6287.1	344.6	81.8	335.0	344.8	76.28
6508.0	105.20	77.80	6280.2	375.8	88.3	365.5	376.0	76.41
6540.0	110.30	78.60	6270.4	406.3	94.6	396.3	406.6	76.55
6571.0	114.90	79.50	6258.5	434.9	100.0	423.4	435.1	76.71
6603.0	115.40	80.60	6244.9	463.8	105.0	451.9	464.0	76.92
6635.0	115.80	80.80	6231.1	492.7	109.7	480.4	492.8	77.14
6666.0	115.90	81.90	6217.6	520.5	113.9	508.0	520.6	77.36
6698.0	116.40	82.50	6203.5	549.2	117.8	536.5	549.2	77.62
6728.0	113.80	81.60	6190.7	576.3	121.5	563.4	576.3	77.83
6759.0	109.60	79.60	6179.3	605.1	126.3	591.8	605.1	77.96
6793.0	104.20	78.80	6169.4	637.6	132.3	623.7	637.6	78.02
6823.0	99.90	77.50	6163.1	666.9	138.4	652.4	666.9	78.03
6855.0	96.10	76.90	6158.7	698.6	145.4	683.3	698.6	77.99
6886.0	91.90	76.70	6156.5	729.5	152.5	713.4	729.5	77.94
6918.0	87.80	76.50	6156.6	761.5	159.9	744.5	761.5	77.88
6950.0	83.20	76.10	6159.1	793.3	167.4	775.5	793.4	77.82
6981.0	78.90	75.30	6163.9	823.9	175.0	805.2	824.0	77.74
7013.0	74.40	75.60	6171.3	855.0	182.8	835.3	855.1	77.66
7043.0	73.70	75.60	6179.6	883.8	190.0	863.3	883.9	77.59
7076.0	73.90	75.30	6188.8	915.5	197.9	893.9	915.6	77.51
7107.0	72.20	78.30	6197.8	945.1	204.7	922.8	945.2	77.49
7139.0	72.20	77.80	6207.6	975.6	211.0	952.6	975.7	77.51
7170.0	72.00	77.60	6217.1	1005.1	217.3	981.4	1005.2	77.52
7202.0	74.70	79.70	6226.3	1035.7	223.3	1011.5	1035.8	77.55
7234.0	77.50	80.30	6234.0	1066.8	228.7	1042.1	1066.9	77.62
7265.0	82.50	80.00	6239.4	1097.3	233.9	1072.1	1097.4	77.69
7297.0	88.50	79.60	6241.9	1129.2	239.6	1103.5	1129.2	77.75
7329.0	90.50	79.80	6242.1	1161.1	245.3	1135.0	1161.2	77.80
7360.0	94.30	79.60	6240.8	1192.1	250.9	1165.5	1192.2	77.85
7392.0	100.70	79.50	6236.7	1223.8	256.6	1196.7	1223.9	77.90
7424.0	102.20	79.70	6230.3	1255.2	262.3	1227.5	1255.2	77.94
7455.0	103.20	80.30	6223.5	1285.4	267.5	1257.3	1285.4	77.99
7487.0	109.20	79.80	6214.6	1316.1	272.8	1287.5	1316.1	78.04
7519.0	111.20	79.60	6203.5	1346.1	278.2	1317.1	1346.1	78.07
7551.0	110.70	80.30	6192.1	1376.0	283.4	1346.6	1376.0	78.11
7581.0	110.80	80.60	6181.5	1404.0	288.1	1374.2	1404.0	78.16
7613.0	108.40	79.80	6170.7	1434.2	293.2	1403.9	1434.2	78.20
7645.0	104.50	79.70	6161.7	1464.8	298.7	1434.1	1464.8	78.24

Survey Report

Company: TEXACO E & P INC.	Date: 1/16/2002	Time: 10:30:42	Page: 12
Field: Justin Tubb Drinkard	Co-ordinate(N/E) Reference:	Site: Lea County, NM. True North	
Site: Lea County NM	Vertical (TYD) Reference:	SITE 0.0 above Mean Sea Level	
Well: G.L. Erwin "A" #7	Section (VS) Reference:	Well (0.0E, 0.0N, 78.4Azi)	
Wellpath: DH - Job #32D1101628	Survey Calculation Method:	Minimum Curvature	

Survey

MD ft	Incl deg	Azim deg	TYD ft	VS ft	N/S ft	E/W ft	C/D ft	C/A deg
7677.0	104.40	79.60	6153.7	1495.8	304.2	1464.5	1495.8	11.26
7708.0	100.30	79.30	6147.1	1526.1	309.8	1494.3	1526.1	10.29
7739.0	96.00	77.10	6142.7	1556.8	315.1	1524.3	1556.8	9.28
7769.0	93.50	76.60	6140.2	1586.6	322.9	1553.4	1586.7	8.26
7801.0	90.70	76.80	6139.0	1618.6	330.2	1584.6	1618.6	7.23
7833.0	88.30	77.40	6139.3	1650.6	337.4	1615.8	1650.6	6.21
7865.0	85.50	77.00	6141.0	1682.5	344.5	1646.9	1682.5	5.19
7897.0	83.60	76.50	6144.0	1714.4	351.8	1677.9	1714.4	4.16
7929.0	83.00	77.10	6147.8	1746.1	359.0	1708.9	1746.2	3.13
7974.0	83.10	77.10	6153.2	1790.8	369.0	1752.4	1790.8	2.11
8006.0	83.10	77.10	6157.1	1822.6	376.1	1783.4	1822.6	1.09

Date: 6-27 '02

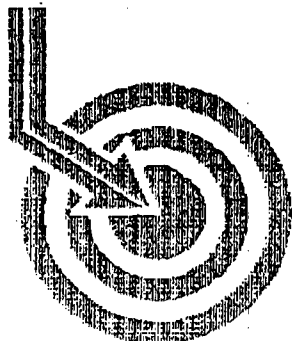
To: Michael Stogner

From: Denise Leake
Chevron Texaco

Fax: 915-687-7221

Office: 915-687-7375

Cover + 6



Scientific Drilling



TEXACO E & P INC.

Field: Justis Blinebry ~~T-10b~~
Site: Lea County, NM
Well: G.L. Erwin "A" #7
Wellpath: DH - Job #32D1101628
Survey: 12/13/01-12/21/01

This survey is correct to the best of my knowledge
and is supported by actual field data.

Justis Blinebry

.....Company Representative

Notorized this date 16th of January, 2002.

Deborah S Bynum

Notary Signature
County of Midland
State of Texas



Survey Report

Company: TEXACO E & P INC.
 Field: Justis Blinberry Tubb
 Site: Lea County, NM
 Well: G.L. Erwin "A" #7
 Wellpath: DH-Job #32D1101628

Date: 1/16/2002 Time: 10:57:23 Page: 1
 Co-ordinate(N/E) Reference: Site: Lea County, NM, True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E, 0.0N, 78.4Azi)
 Survey Calculation Method: Minimum Curvature

Survey: 12/13/01-12/21/01
 MWD 5213-7178

Start Date: 1/16/2002

Company: SDI w/Unidril
 Tool: MWD

Engineer: Lamb/Kemp

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	C ft	ClsA deg
5200.0	0.29	83.32	5198.4	96.0	33.6	91.1	97.1	69.73
5213.0	0.29	83.32	5211.4	96.0	33.6	91.1	97.1	69.74
5310.0	6.40	73.90	5308.2	101.7	35.2	96.6	102.8	69.99
5341.0	6.20	76.80	5339.0	105.1	36.0	99.9	106.2	70.16
5364.0	11.10	66.70	5381.5	111.5	36.7	106.3	112.4	70.97
5415.0	25.60	88.40	5410.8	121.0	36.9	116.0	121.7	72.35
5445.0	39.30	81.20	5436.1	137.0	38.6	131.9	137.5	73.71
5488.0	59.30	82.70	5464.0	169.4	43.0	164.1	169.6	75.30
5510.0	68.80	78.70	5473.6	189.1	48.2	183.5	189.3	75.86
5542.0	78.10	76.20	5482.7	219.7	52.9	213.5	219.9	76.07
5586.0	85.00	75.70	5489.2	263.2	63.5	255.6	263.4	76.05
5616.0	89.90	76.30	5490.5	293.1	70.7	284.7	293.4	76.05
5648.0	95.60	76.30	5489.0	325.0	78.3	315.8	325.3	76.07
5680.0	102.00	75.70	5484.1	356.6	85.9	346.4	356.9	76.07
5711.0	108.30	77.00	5476.0	386.5	93.0	375.5	386.8	76.09
5743.0	110.60	79.20	5465.3	416.7	99.2	405.0	417.0	76.23
5773.0	110.30	78.50	5454.7	444.8	104.7	432.5	445.0	76.40
5803.0	110.10	78.50	5444.4	472.9	110.3	460.1	473.2	76.52
5835.0	109.70	78.50	5433.5	503.0	116.3	489.6	503.2	76.64
5865.0	109.40	78.30	5423.4	531.3	122.0	517.3	531.5	76.73
5899.0	109.40	77.80	5412.1	563.3	128.6	548.7	563.6	76.81
5927.0	109.50	77.20	5402.8	589.7	134.3	574.5	590.0	76.84
5958.0	105.20	80.00	5393.6	619.3	140.2	603.6	619.5	76.93
5990.0	100.00	82.30	5386.8	660.5	144.9	634.3	660.7	77.13
6019.0	94.20	84.40	5383.0	679.2	148.3	662.9	679.3	77.39
6053.0	89.10	85.30	5382.0	712.9	151.3	696.7	713.0	77.75
6084.0	85.10	84.10	5383.6	743.7	154.2	727.5	743.7	78.03
6116.0	85.20	84.10	5386.3	775.4	157.5	759.3	775.4	78.28
6147.0	84.60	80.90	5389.1	806.2	161.5	789.9	806.2	78.45
6179.0	85.20	80.90	5391.9	836.0	166.5	821.3	836.0	78.54
6210.0	83.60	77.20	5394.9	868.9	172.4	851.6	868.9	78.66
6242.0	83.50	76.50	5398.5	900.7	179.6	882.6	900.7	78.50
6273.0	83.50	76.40	5402.0	931.5	186.8	912.5	931.5	78.43
6305.0	83.40	76.40	5405.7	963.2	194.3	943.4	963.2	78.36
6336.0	83.50	76.60	5409.2	994.0	201.5	973.4	994.0	78.30
6368.0	84.00	76.50	5412.7	1025.8	208.9	1004.3	1025.8	78.25
6400.0	85.20	76.10	5415.7	1057.6	216.4	1035.3	1057.6	78.19
6431.0	85.40	75.90	5418.3	1088.5	223.9	1065.2	1088.5	78.13
6461.0	85.10	76.30	5420.8	1118.4	231.1	1094.3	1118.4	78.07
6493.0	89.00	77.20	5422.4	1150.3	236.4	1125.4	1150.3	78.04
6523.0	92.40	77.40	5422.0	1180.3	245.0	1154.6	1180.3	78.02
6555.0	97.10	77.40	5419.4	1212.2	252.0	1185.7	1212.2	78.00
6586.0	102.60	77.80	5414.1	1242.7	258.5	1215.6	1242.7	77.99
6620.0	103.60	77.90	5406.4	1275.8	265.5	1247.9	1275.9	77.99
6650.0	106.50	80.10	5398.6	1304.8	271.0	1276.4	1304.8	78.01
6682.0	106.30	80.10	5389.6	1335.5	276.3	1306.6	1335.5	78.06
6713.0	106.10	82.40	5380.9	1365.2	280.8	1336.0	1365.2	78.13
6747.0	106.00	82.20	5371.5	1397.8	285.2	1368.4	1397.8	78.23

Survey Report

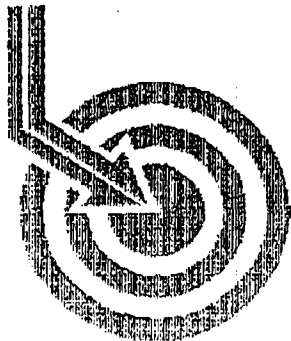
Company: TEXACO E & P INC.
 Field: Justis Blinbry Tubb
 Site: Lea County, NM
 Well: G.L. Erwin "A" #7
 Wellpath: DH - Job #32D1101628

Date: 1/16/2002 Time: 10:57:23
 Co-ordinate(NE) Reference: Site: Lea County, NM, Tr North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E, 0.0N, 78.4Azi)
 Survey Calculation Method: Minimum Curvature

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	Chd ft	A deg
6776.0	105.70	82.20	5363.6	1425.6	289.0	1396.0	1425.6	78.30
6808.0	104.20	78.70	5355.3	1456.5	294.1	1426.5	1456.5	78.35
6839.0	104.10	79.00	5347.7	1486.6	299.9	1456.0	1486.6	78.36
6871.0	100.90	79.40	5340.8	1517.8	305.8	1486.7	1517.8	78.36
6902.0	95.10	80.40	5336.5	1548.5	311.2	1516.9	1548.5	78.41
6933.0	91.30	81.40	5334.8	1579.4	316.1	1547.5	1579.4	78.46
6965.0	90.80	81.00	5334.2	1611.4	321.0	1579.1	1611.4	78.51
6997.0	86.50	78.80	5334.9	1643.3	326.6	1610.6	1643.3	78.54
7029.0	82.40	78.40	5338.0	1675.2	332.9	1641.8	1675.2	78.54
7060.0	82.30	78.80	5342.2	1705.9	338.9	1671.9	1705.9	78.54
7092.0	82.40	78.20	5346.4	1737.6	345.3	1703.0	1737.6	78.54
7123.0	83.10	76.40	5350.3	1768.4	352.0	1733.0	1768.4	78.52
7143.0	83.10	76.70	5352.7	1788.2	356.6	1752.3	1788.2	78.50
7178.0	83.10	78.70	5356.9	1823.0	364.0	1786.2	1823.0	78.48



Scientific Drilling



TEXACO E & P INC.

Field: Justin Tubb Drinkard
Site: Lea County, NM
Well: G.L. Erwin "A" #7
Wellpath: DH - Job #32D1101628
Survey: 11/24/01-12/7/01

This survey is correct to the best of my knowledge
and is supported by actual field data.

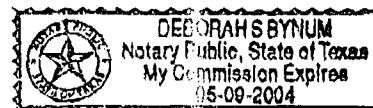
Justin Tubb Drinkard

.....Company Representative

Notorized this date 16th of January, 2002.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas



Survey Report

Company: TEXACO E & P INC.				Date: 1/16/2002	Time: 10:30:42	Page: 1		
Field: Justin Tubb Drinkard				Co-ordinate(N/E) Reference:	Site: Lea County, NM, T	North		
Site: Lea County, NM				Vertical (TVD) Reference:	SITE 0.0 ab Mean Se	level		
Well: G.L. Erwin "A" #7				Section (VS) Reference:	Well (0.0E, 178.4Azi)			
Wellpath: DH - Job #32D1101626				Survey Calculation Method:	Minimum Closure			
Survey: 11/24/01-12/7/01				Start Date:	1/16/2002			
MWD 6171'-8006'								
Company: SDI w/Undrill				Engineers:	Lamb/Kemp			
Tool: MWD								
Survey								
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	As deg	As deg
6100.0	0.72	63.08	6098.3	101.1	36.6	95.7	102.5	69.09
6171.0	0.77	81.96	6169.3	102.0	36.8	96.6	103.4	69.13
6232.0	34.80	79.30	6226.6	120.4	40.2	114.6	121.5	70.67
6252.0	44.10	80.10	6242.0	133.1	42.5	127.1	134.0	71.52
6282.0	56.90	81.50	6261.0	156.2	46.2	149.9	156.9	72.89
6318.0	71.70	80.70	6276.6	188.5	51.2	181.9	189.0	74.29
6349.0	78.00	79.70	6284.7	218.4	56.3	211.4	218.7	75.09
6380.0	83.50	78.60	6289.7	248.9	62.0	241.4	249.2	75.59
6412.0	88.60	77.90	6291.9	280.9	68.5	272.7	281.1	75.89
6445.0	94.50	78.00	6291.0	313.8	75.4	304.9	314.1	76.11
6476.0	99.90	78.00	6287.1	344.6	81.8	335.0	344.8	76.28
6508.0	105.20	77.80	6280.2	375.8	88.3	365.5	376.0	76.41
6540.0	110.30	78.60	6270.4	406.3	94.6	395.3	406.5	76.55
6571.0	114.90	79.50	6258.5	434.9	100.0	423.4	435.1	76.71
6603.0	115.40	80.60	6244.9	463.8	105.0	451.9	464.0	76.92
6635.0	115.80	80.80	6231.1	492.7	109.7	480.4	492.8	77.14
6666.0	115.90	81.90	6217.6	520.5	113.9	508.0	520.6	77.36
6698.0	116.40	82.50	6203.5	549.2	117.8	536.5	549.2	77.62
6728.0	113.80	81.60	6190.7	576.3	121.5	563.4	576.3	77.83
6759.0	109.60	79.60	6179.3	605.1	126.3	591.8	605.1	77.96
6793.0	104.20	78.80	6169.4	637.6	132.3	623.7	637.6	78.02
6823.0	99.90	77.50	6163.1	666.9	138.4	652.4	666.9	78.03
6855.0	96.10	76.90	6158.7	698.6	145.4	683.3	698.6	77.99
6886.0	91.90	76.70	6156.5	729.5	152.5	713.4	729.5	77.94
6918.0	87.80	76.50	6156.6	761.5	159.9	744.5	761.5	77.88
6950.0	83.20	76.10	6159.1	793.3	167.4	775.6	793.4	77.82
6981.0	78.90	75.30	6163.9	823.9	175.0	805.2	824.0	77.74
7013.0	74.40	75.60	6171.3	855.0	182.8	835.3	855.1	77.66
7043.0	73.70	75.60	6179.6	883.8	190.0	863.3	883.9	77.59
7076.0	73.90	75.30	6188.8	915.5	197.9	893.9	915.6	77.51
7107.0	72.20	78.30	6197.8	945.1	204.7	922.8	945.2	77.49
7139.0	72.20	77.80	6207.6	975.6	211.0	952.6	975.7	77.51
7170.0	72.00	77.60	6217.1	1005.1	217.3	981.4	1005.2	77.52
7202.0	74.70	79.70	6226.3	1035.7	223.3	1011.5	1035.8	77.55
7234.0	77.50	80.30	6234.0	1066.8	228.7	1042.1	1066.9	77.62
7265.0	82.50	80.00	6239.4	1097.3	233.9	1072.1	1097.4	77.69
7297.0	88.50	79.60	6241.9	1129.2	239.6	1103.5	1129.2	77.75
7329.0	90.50	79.80	6242.1	1161.1	245.3	1135.0	1161.2	77.80
7360.0	94.30	79.60	6240.8	1192.1	250.9	1165.5	1192.2	77.85
7392.0	100.70	79.50	6236.7	1223.8	256.6	1196.7	1223.9	77.90
7424.0	102.20	79.70	6230.3	1255.2	262.3	1227.5	1255.2	77.94
7455.0	103.20	80.30	6223.5	1285.4	267.5	1257.3	1285.4	77.99
7487.0	109.20	79.80	6214.6	1316.1	272.8	1287.5	1316.1	78.04
7519.0	111.20	79.60	6203.6	1346.1	278.2	1317.1	1346.1	78.07
7551.0	110.70	80.30	6192.1	1376.0	283.4	1346.5	1376.0	78.11
7581.0	110.80	80.60	6181.5	1404.0	288.1	1374.2	1404.0	78.16
7613.0	108.40	79.80	6170.7	1434.2	293.2	1403.9	1434.2	78.20
7645.0	104.50	79.70	6161.7	1464.8	298.7	1434.1	1464.8	78.24

Survey Report

Company: TEXACO E & P INC
 Field: Justin Tubb Drinkard
 Site: Lea County, NM
 Well: G.L. Erwin "A" #7
 Wellpath: DH - Job #32D1101628

Date: 7/16/2002
 Time: 10:30:42
 Co-ordinate(N/E) Reference: Site: Lea County, NM, True North
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
 Section (VS) Reference: Well (0.0E, 0.0N, 78.4Azi)
 Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	C-D ft	C-A ft
7677.0	104.40	79.50	6153.7	1496.8	304.2	1464.5	1495.8	8.26
7708.0	100.30	79.30	6147.1	1526.1	309.8	1494.3	1526.1	8.29
7739.0	96.00	77.10	6142.7	1556.8	316.1	1524.3	1556.8	8.28
7769.0	93.50	76.60	6140.2	1586.6	322.9	1553.4	1586.7	8.26
7801.0	90.70	76.80	6139.0	1618.6	330.2	1584.6	1618.6	8.23
7833.0	88.30	77.40	6139.3	1650.6	337.4	1615.8	1650.6	8.21
7865.0	85.50	77.00	6141.0	1682.5	344.5	1646.9	1682.5	8.19
7897.0	83.60	76.50	6144.0	1714.4	351.8	1677.9	1714.4	8.16
7929.0	83.00	77.10	6147.8	1746.1	359.0	1708.9	1746.2	8.13
7974.0	83.10	77.10	6153.2	1790.8	369.0	1752.4	1790.8	8.11
8006.0	83.10	77.10	6157.1	1822.6	376.1	1783.4	1822.6	8.09

Date: 6-27 '02

To: Michael Stogner

From: Denise Leake
Chevron Texaco

Fax: 915-687-7221

Office: 915-687-7375

Cover + 6

Scientific Drilling International

Survey Report

Company: TEXACO E & P INC.
Field: Justis Blinney Tubb
Site: Lea County, NM
Well: G.L. Erwin "A" #7
Wellpath: DH - Job #32D1101628

Date: 1/16/2002
Co-ordinate(NE) Reference:
Vertical (TVD) Reference:
Section (VS) Reference:
Survey Calculation Method:

Time: 10:57:23
Page: 1
Site: Lea County, NM, True North
SITE 0.0 above Mean Sea Level
Well (0.0E, 0.0N, 78.4Azi)
Minimum Curvature

Survey: 12/13/01-12/21/01
MWD 5213'-7178'

Start Date: 1/16/2002

Company: SDI w/Unidri
Tool: MWD

Engineer: Lamb/Kemp

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClSD ft	ClSA deg
5200.0	0.29	83.32	5198.4	96.0	33.6	91.1	97.1	69.73
5213.0	0.29	83.32	5211.4	96.0	33.6	91.1	97.1	69.74
5310.0	6.40	73.90	5308.2	101.7	35.2	96.6	102.8	69.99
5341.0	6.20	76.80	5339.0	105.1	36.0	99.9	106.2	70.16
5384.0	11.10	88.70	5381.5	111.5	36.7	106.3	112.4	70.97
5415.0	25.60	88.40	5410.8	121.0	36.9	116.0	121.7	72.35
5445.0	39.30	81.20	5436.1	137.0	38.6	131.9	137.5	73.71
5488.0	59.30	82.70	5464.0	169.4	43.0	164.1	169.6	75.30
5510.0	68.80	78.70	5473.6	189.1	46.2	183.5	189.3	75.86
5542.0	78.10	76.20	5482.7	219.7	52.9	213.5	219.9	76.07
5586.0	85.00	75.70	5489.2	263.2	63.5	255.6	263.4	76.05
5616.0	89.90	78.30	5490.5	293.1	70.7	284.7	293.4	76.05
5648.0	95.60	76.30	5489.0	325.0	78.3	315.8	325.3	76.07
5680.0	102.00	75.70	5484.1	356.6	85.9	346.4	356.9	76.07
5711.0	108.30	77.00	5476.0	386.5	93.0	375.5	386.8	76.09
5743.0	110.80	79.20	5465.3	416.7	99.2	405.0	417.0	76.23
5773.0	110.30	78.50	5454.7	444.8	104.7	432.5	445.0	76.40
5803.0	110.10	78.50	5444.4	472.9	110.3	460.1	473.2	76.52
5835.0	109.70	78.50	5433.5	503.0	116.3	489.6	503.2	76.64
5865.0	109.40	78.30	5423.4	531.3	122.0	517.3	531.5	76.73
5899.0	109.40	77.80	5412.1	563.3	128.8	548.7	563.6	76.81
5927.0	109.50	77.20	5402.8	589.7	134.3	574.5	590.0	76.84
5958.0	105.20	80.00	5393.6	619.3	140.2	603.5	619.5	76.93
5990.0	100.00	82.30	5386.6	660.6	144.9	634.3	650.7	77.13
6019.0	94.20	84.40	5383.0	679.2	148.3	662.9	679.3	77.39
6053.0	89.10	85.30	5382.0	712.9	151.3	696.7	713.0	77.75
6084.0	85.10	84.10	5383.6	743.7	154.2	727.5	743.7	78.03
6116.0	85.20	84.10	5386.3	775.4	157.5	759.3	775.4	78.28
6147.0	84.60	80.90	5389.1	806.2	161.5	789.9	806.2	78.45
6179.0	85.20	80.90	5391.9	838.0	166.5	821.3	838.0	78.54
6210.0	83.60	77.20	5394.9	868.9	172.4	851.6	868.9	78.56
6242.0	83.50	76.50	5398.5	900.7	179.6	882.6	900.7	78.50
6273.0	83.50	76.40	5402.0	931.5	186.8	912.5	931.5	78.43
6305.0	83.40	76.40	5405.7	963.2	194.3	943.4	963.2	78.36
6336.0	83.50	76.60	5409.2	994.0	201.5	973.4	994.0	78.30
6368.0	84.00	76.50	5412.7	1025.8	208.9	1004.3	1025.8	78.25
6400.0	85.20	76.10	5415.7	1057.6	216.4	1035.3	1057.6	78.19
6431.0	85.40	75.90	5418.3	1088.5	223.9	1065.2	1088.5	78.13
6461.0	85.10	76.30	5420.8	1118.4	231.1	1094.3	1118.4	78.07
6493.0	89.00	77.20	5422.4	1150.3	238.4	1125.4	1150.3	78.04
6523.0	92.40	77.40	5422.0	1180.3	245.0	1154.6	1180.3	78.02
6555.0	97.10	77.40	5419.4	1212.2	252.0	1185.7	1212.2	78.00
6586.0	102.60	77.80	5414.1	1242.7	258.5	1215.6	1242.7	77.99
6620.0	103.60	77.90	5406.4	1275.8	265.5	1247.9	1275.9	77.99
6650.0	106.50	80.10	5398.5	1304.8	271.0	1276.4	1304.8	78.01
6682.0	106.30	80.10	5389.6	1335.5	276.3	1306.6	1335.5	78.06
6713.0	106.10	82.40	5380.9	1365.2	280.8	1336.0	1365.2	78.13
6747.0	106.00	82.20	5371.5	1397.8	285.2	1368.4	1397.8	78.23



TEXACO E & P INC.

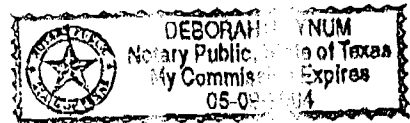
This survey is correct to the best of my knowledge
and is supported by actual field data.

Carol Moody.....Company Representative

Notorized this date 16th of January, 2002.

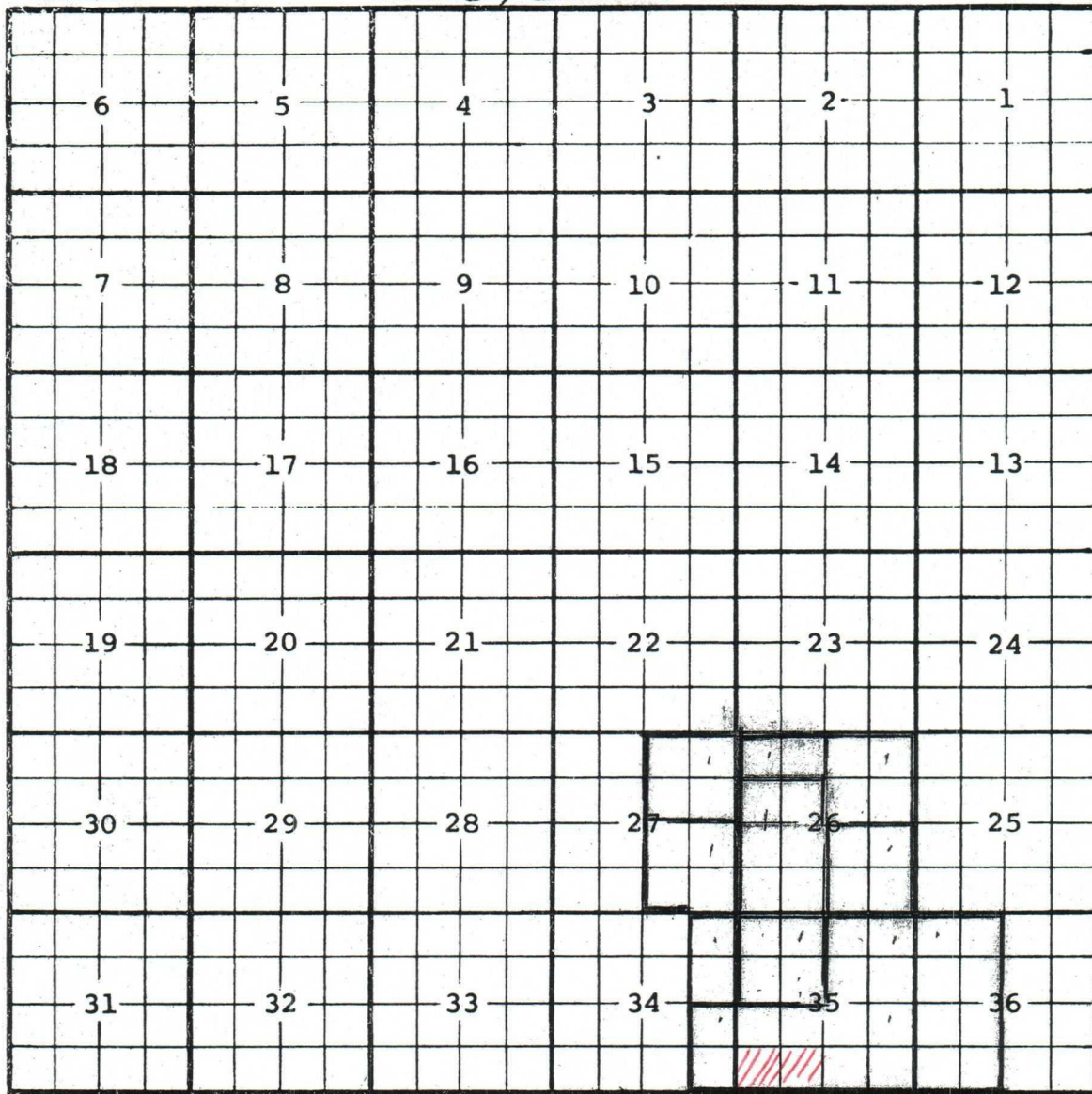
Deborah Ann Synum

Notary Signature
County of Midland
State of Texas



COUNTY *Lea*POOL *Justis - Blinebry*TOWNSHIP *24 South*RANGE *37 East*

NMPM



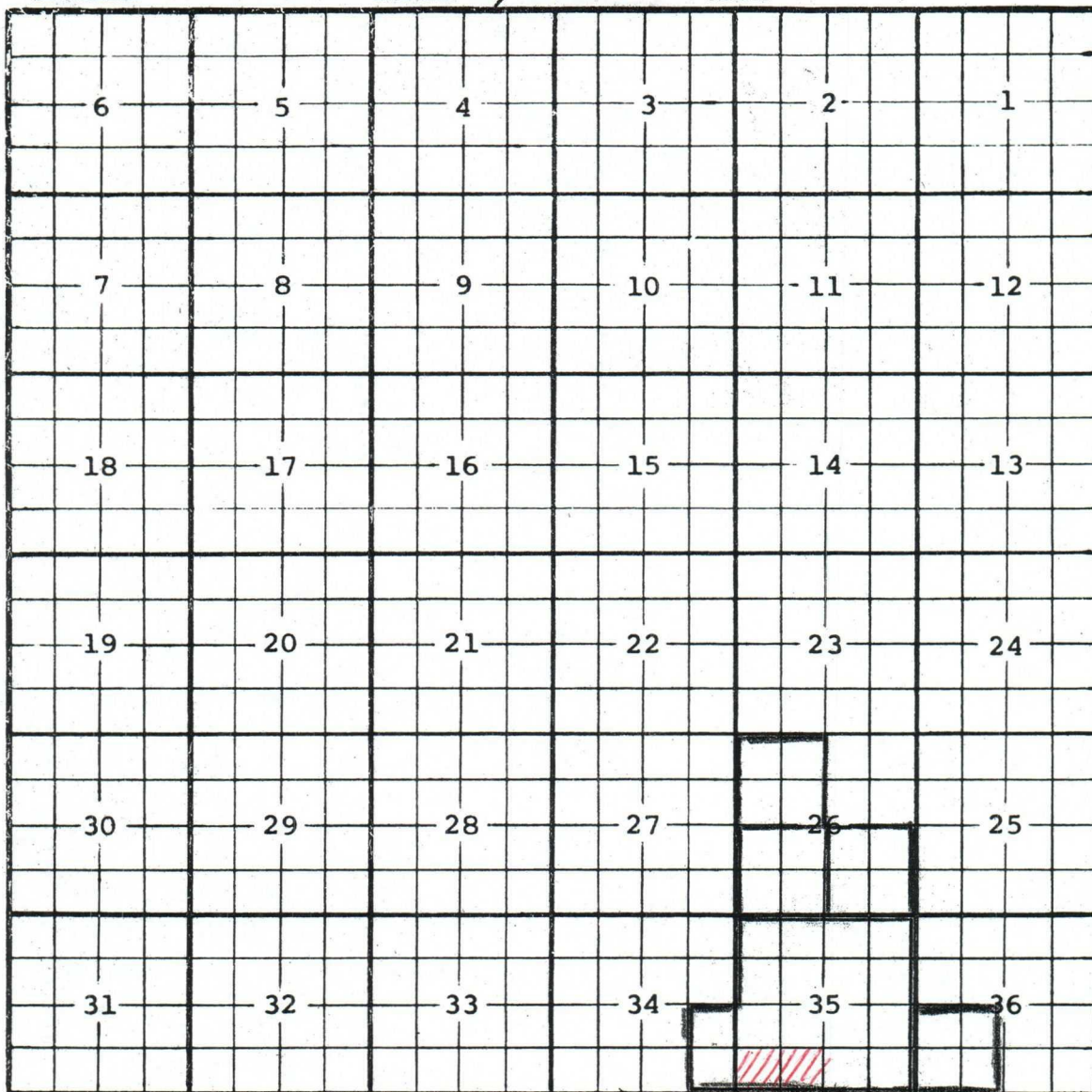
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 - $\frac{NW}{4}$ Sec. 35 (R-2833, 1-1-65) - $\frac{SE}{4}$ Sec. 26 (R-2998, 12-1-65) - $\frac{SW}{4}$ $\frac{S}{2}$ $\frac{NW}{4}$ Sec. 26 (R-3056, 5-1-66)
 - $\frac{E}{2}$ $\frac{NE}{4}$ Sec. 34 (R-3091, 8-1-66) - $\frac{NE}{4}$ Sec. 26 (R-3195, 3-1-67) - $\frac{N}{2}$ $\frac{NW}{4}$ Sec. 26 (R-3438, 7-1-68)
 - $\frac{NE}{4}$ Sec. 27 (R-3530, 11-1-68) - $\frac{SE}{4}$ Sec. 27 (R-3911, 2-1-70)

COUNTY Lea

POOL

Justis Tubb-DrinkardTOWNSHIP 24 SouthRANGE 37 East

NMPM



Ext: $\frac{E}{2}$ $\frac{SE}{4}$ Sec. 34; All Sec. 35 (R-2923, 7-1-65) - $\frac{SE}{4}$ Sec. 26 (R-2998, 12-1-65)
- $\frac{SW}{4}$ Sec. 26 (R-3051, 4-1-66) EXT: $\frac{SW}{4}$ SEC. 36 (R-8584, 1/11/88)
Ext: $\frac{NW}{4}$ Sec. 26 (R-10091, 3-28-94)